

Bee T



Protein Extraction (Standard Protocol)

- Centrifuge a bacterial culture for 15 minutes at 4700xg to spin down the cells. Discard the supernatant.
- Dilute the cells with TrisHCl-buffer (pH 7.0) . Add to 1 volume cells, 4 volumes buffer.
- When extracting proteins from gram positive bacteria, add 10 mg/mL chicken egg lysozyme and incubate for 1 hour at 37°C while shaking. Leave out this step when extracting proteins from gram negative bacteria.
- Sonicate the solution 60 times 30 seconds at 20% power while keeping the sample in ice water to prevent heating. Instead of sonicating, a French press can be used to break the cells.
- Centrifuge the protein suspension for 15 minutes at 4700xg at 4°C. The supernatant is further used as the protein extract.

